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Although cotton acreage has declined from 14 million to 8 million acres, it still accounts for cash receipts nearing 4.3 billion dollars. This bibliography of about 1,500 citations to the literature covering protection of cotton from diseases, insects, nematodes, pesticides, other chemicals, and environmental considerations is organized by table-of-contents headings, with each item appearing under every appropriate heading.

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The Protection of Cotton, January 1980-November 1984

Citations from Agricola Concerning Diseases and Other Environmental Considerations

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The Protection of Cotton, January 1980-November 1984

Citations from Agricola Concerning Diseases and Other Environmental Considerations

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Charles N. Bebee
National Agricultural Library

Bibliographies and Literature
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United States Department of Agriculture
National Agricultural Library
Beltsville, Maryland 20705

and

United States Environmental Protection Agency
Office of Pesticide Programs
Washington, D.C. 20460

August 1985

FOREWORD

This is the third volume in a series of commodity-oriented environmental bibliographies resulting from a memorandum of understanding between the United States Department of Agriculture, National Agricultural Library (USDA-NAL), and the Environmental Protection Agency, Office of Pesticide Programs (EPA-OPP).

This close working relationship between the two agencies will produce a series of bibliographies which will be useful to EPA in the regulation of pesticides, as well as to any researcher in the field of plant or commodity protection. The broad scope of information contained in this series will benefit USDA, EPA, and the agricultural community as a whole.

The sources referenced in these bibliographies include the majority of the latest available information from United States publications involving commodity protection throughout the growing and processing stages for each agricultural commodity.

We welcome the opportunity to join this cooperative effort between USDA and EPA in support of the national agricultural community.

Joseph H Howard

JOSEPH H. HOWARD, Director
National Agricultural Library

STEVEN SCHATZOW, Director
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INTRODUCTION

The citations in this bibliography are selected from works by U.S. authors on all aspects of the protection of cotton from diseases, insects, nematodes, chemicals, or other environmental conditions which affect the yield and quality of this commodity. All citations are derived from AGRICOLA (AGRICultural OnLine Access), the family of data bases compiled by the National Agricultural Library for its 1.8-million-volume collection.

This is the third bibliography included in a series jointly sponsored by the National Agricultural Library, United States Department of Agriculture (USDA-NAL), and the Office of Pesticides Programs, Environmental Protection Agency (EPA-OPP). Additional volumes issued recently or planned for the immediate future concern the protection of corn, soybeans, pome fruits, stone fruits, wheat, grain sorghum, rice, and peanuts.

Entries in the bibliography are subdivided into a series of subject headings used in the table of contents of the Bibliography of Agriculture and in the National Agricultural Library Catalog. Each citation appears under the subject heading assigned to the particular item. A complete author indexis also included in the publication.

The Office of Pesticide Programs, EPA, has furnished technical assistance to the compiler through members of a commodity-oriented environmental data team which included:

Charles David Reese
H. Irving Brigham
Bernard Schneider, PhD.
Richard Petrie

Any comments or questions may be forwarded to the compiler:

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METEOROLOGY AND CLIMATOLOGY

0002

Degree-days: an aid in crop and pest management (Cotton, Heliothis zea).
Wilson, L.T.CAGRA. Barnett, W.W. Berkeley : The Station. California agriculture - California Agricultural Experiment Station. Jan/Feb 1983. v. 37 (1/2). p. 4-7. ill. (NAL Call No.: 100 C12CAG).

0003

Effect of wind on the crop water stress index derived by infrared thermometry (Sorghum bicolor, Zea mays, Phaseolus vulgaris, Gossypium hirsutum).
O'Toole, J.C.AGJOA. Hatfield, J.L. Madison : American Society of Agronomy. Agronomy journal. Sept/Oct 1983. v. 75 (5). p. 811-817. ill. Includes references. (NAL Call No.: 4 AM34P).

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Tucson, Ariz. : College of Agriculture, University of Arizona. Arizona land & people. Mar 1984. v. 35 (1). p. 18-20. (NAL Call No.: 6 P9452).

0006

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Ridgway, R.L.XAAHA. Lloyd, E.P. Washington : The Department. Agriculture handbook - United States Department of Agriculture. Nov 1983. Nov 1983. (589). p. 3-27. ill. Includes references. (NAL Call No.: 1 AG84AH).

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Helms, D. Berkeley, University of California Press. Agricultural history. Jan 1980. v. 54 (1). p. 108-125. ill. Includes bibliography. (NAL Call No.: 30.98 AG8).

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0008

Agricultural oral history interview with Stuart D. Lyda and Earl Burnett / with the direction of Irvin M. May.
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0010

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LEGISLATION

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0013

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0014

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Eichers, T.R. Washington, D.C., The Department. Extract: The primary objective of this study is to analyze the nature of the pesticide industry by smaller component markets (submarkets) and evaluate its structure, conduct, and performance. The study also examines some of the implications of pesticide regulations on the pesticide industry and on farm pesticide use. Agricultural economic report - United States Dept. of Agriculture. Sept 1980. Sept 1980. (461). 24 p. 39 ref. (NAL Call No.: A281.9 AG8A).

ECONOMICS

0015

Beltwide boll weevil/cotton insect management programs: appendix B - economic evaluation.
United States - Dept. of Agriculture - Economic Research Service - Natural Resource Economics Division. Washington, D.C., The Service. Extract: Alternative boll weevil/cotton insect management programs were evaluated for their effects on net market benefits and for their distributive impacts on producers and consumers. The Optimum Pest Management with No Incentives and Boll Weevil Eradication (OPM-NI-BWE) program produced the highest net market benefits, as measured by the sum of producer and consumer benefits less public program costs. Consumer benefits from lower prices greatly exceeded the loss of producer incomes and public costs. The Optimum Pest Management with No Incentive (OPM-NI) program produced the highest rate of return on Federal investment. A B/C ratio of 44:1 was obtained, compared with 17:1 for OPM-NI-BWE. ERS staff report - United States Dept. of Agriculture, Economic Research Service. June 5, 1981. Available from NTIS - order no. PB82-156-209. June 5, 1981. (AGESS810518). 68 p. maps. 20 ref. (NAL Call No.: 916762(AGE)).

0016

Beltwide boll weevil/cotton insect management programs: appendix D - program definitions and public costs.
United States - Dept. of Agriculture - Economic Research Service - Natural Resource Economics Division. Washington, D.C., The Service. Extract: Implementation plans were outlined and respective public costs were estimated for six beltwide boll weevil/cotton insect management programs in boll weevil-infested areas. Public cost is only one component of an economic evaluation of alternative programs. If fully implemented, annual public costs of the programs would be: current insect control (CIC), - .5 million; optimum pest management with incentives (OPM-I), $36 million; OPM with phased incentives (OPM-PI), $7 million; OPM with no incentives (OPM-NI) $7 million; OPM-NI with boll weevil eradication (OPM-NI-BWE), $7.5 million; and CIC-BWE, $3 million. However, estimated public and private costs would total $460 million during the 9 years to eradicate the boll weevil. Also, public costs for diapause treatments for the OPM program with phased incentives would total about $61 million during the 3 years of implementation. ERS staff report - United States Dept. of Agriculture, Economic Research Service. May 1981. Available from NTIS. May 1981. (AGESS810504). 190 p. (NAL Call No.: 916762(AGE)).

0017

Beltwide boll weevil/cotton insect management programs: appendix E - the Delphi: insecticide use and lint yields.
United States - Dept. of Agriculture - Economic Research Service - Natural Resource Economics Division. Washington, D.C., The Service. The Delphi, a method for systematic collection of information from experts, was modified to obtain biological data required for the economic analysis of boll weevil/cotton insect management programs. Cotton insect management and crop production experts provided detailed data regarding the insecticide use patterns and cotton lint yields they projected would result under each of five alternative insect management options, in 35 subregions of cotton production. These data were used to estimate average insecticide use use and cotton lint yield of six boll weevil/cotton insect management programs. Producers' average insect control costs under each program also were calculated from the information provided by the Delphi experts. ERS staff report - United States Dept. of Agriculture, Economic Research Service. May 1981. Available from NTIS. May 1981. (AGESS810507). 123 p. (NAL Call No.: 916762(AGE)).

0018

Beltwide boll weevil/cotton insect management programs: overall evaluation.
United States - Dept. of Agriculture - Economic Research Service - Natural Resource Economics Division. Washington, D.C., The Service. Extract: Two boll weevil/cotton insect management trials, conducted during 1978-80, demonstrated the technical and operational feasibility of eradicating a boll weevil population from a geographic area or eliminating the need for boll weevil treatments during the cotton-growing season. Six cotton insect management programs were specified and evaluated for application in the boll weevil infested areas of the Cotton Belt. The Optimum Pest Management with No Incentive and Boll Weevil Eradication (OPM-NI-BWE) Program would yield substantially higher total economic and environmental benefits than the other programs. The OPM with No Incentive Program was estimated to yield the highest benefit/cost ratio in terms of public expenditures. ERS staff report - United States Dept. of Agriculture, Economic Research Service. May 15, 1981. Available from NTIS. May 15, 1981. (AGESS810721). 45 p. 16 ref. (NAL Call No.: 916762(AGE)).

0019

Controlling Heliothis spp. on cotton through the release of Trichogramma pretiosum and applications of Bacillus thuringiensis - an economic assessment (integrated pest management).
Liapis, P.S. Washington, D.C., The Service. Extract: This study examines the cost effectiveness of employing biological controls to control Heliothis spp. on cotton in the Delta Area of Mississippi. The biological controls examined are: a) the release of Trichogramma, an egg parasitoid, b) the use of Bacillus thuringiensis, a bacterial agent, and c) the joint use of Bacillus thuringiensis and Trichogramma. The cost of employing the biological agents are compared to the cost of employing conventional material, and break-even

yields are determined. Partial budget analysis indicates that the cost of utilizing Trichogramma or Bacillus thuringiensis as the control agent may be cost competitive. Further research is needed to determine the yield effects of the biological controls examined in this study before use recommendations can be made. ESCS staff report - U.S. Dept. of Agriculture, Economics, Statistics, and Cooperatives Service. Aug 1980. Aug 1980. 36 p. 27 ref. (NAL Call No.: 916762(AGE)).

0020

Economic analysis of cotton integrated pest management strategies.
Liapis, P.S. Moffitt, L.J. Lexington, Ky., Southern Agricultural Economics Assoc. Extract: Cotton integrated pest management strategies are evaluated and compared under risk according to the exponential utility, moment-generating function approach to stochastic efficiency. Results suggest that biological control of a major cotton pest complex is preferred when risk aversion is an important component in grower decision making. Robustness of this result under alternative assumptions is indicated. Southern journal of agricultural economics - Southern Agricultural Economics Association. July 1983. v. 15 (1). p. 97-102. Includes 13 references. (NAL Call No.: HD101.S6).

0021

The farm pesticide industry.
Eichers, T.R. Washington, D.C., The Department. Extract: The primary objective of this study is to analyze the nature of the pesticide industry by smaller component markets (submarkets) and evaluate its structure, conduct, and performance. The study also examines some of the implications of pesticide regulations on the pesticide industry and on farm pesticide use. Agricultural economic report - United States Dept. of Agriculture. Sept 1980. Sept 1980. (461). 24 p. 39 ref. (NAL Call No.: A281.9 AG8A).

0022

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0023

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Hanemann, W.M. Farnsworth, R.L. Berkeley, The Foundation. Working paper - Giannini Foundation of Agricultural Economics, Department of Agricultural and Resource Economics, California Agricultural Experiment Station. Mar 1980. Mar 1980. (83). 10 p. 11 ref. (NAL Call No.: 916970(AGE)).

0024

Texas High Plains bollworm survey: a general summary of results.
Sellar, C. Stoll, J.R.; Lacewell, R.D.; Walker, J.K.; Leser, J.F.; Ziemer, R.F. College Station, Tex. : The Station. Extract: Cotton is a major crop in the Southern High Plains region of Texas. In the past few years, concern about bollworm problems in cotton has been expressed by many growers. This study was initiated to assess status of the High Plains bollworm problem. Its focus is to: examine effectiveness of bollworm control measures; identify degree of insecticide uses; and estimate impact of bollworms upon cotton lint yields. The study was based on survey information gathered from cotton producers in a 20-county region of the Texas High Plains. Departmental technical report - Texas Agricultural Experiment Station. Dec 1982. Predominantly tables. Dec 1982. (82-2). 52 p. (NAL Call No.: HD1775.T4T5).

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0025

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Bishop, K.C. Saunders, F.B.; Wetzstein, M.E.; Perry, C.E. Athens, Ga. : The Stations. Research bulletin - University of Georgia, Experiment Stations. June 1984. June 1984. (312). 26 p. Includes 33 references. (NAL Call No.: S51.E2).

0026

Beltwide boll weevil/cotton insect management programs: appendix B - economic evaluation.
United States - Dept. of Agriculture - Economic Research Service - Natural Resource Economics Division. Washington, D.C., The Service. Extract: Alternative boll weevil/cotton insect management programs were evaluated for their effects on net market benefits and for their distributive impacts on producers and consumers. The Optimum Pest Management with No Incentives and Boll Weevil Eradication (OPM-NI-BWE) program produced the highest net market benefits, as measured by the sum of producer and consumer benefits less public program costs. Consumer benefits from lower prices greatly exceeded the loss of producer incomes and public costs. The Optimum Pest Management with No Incentive (OPM-NI) program produced the highest rate of return on Federal investment. A B/C ratio of 44:1 was obtained, compared with 17:1 for OPM-NI-BWE. ERS staff report - United States Dept. of Agriculture, Economic Research Service. June 5, 1981. Available from NTIS - order no. PB82-156-209. June 5, 1981. (AGESS810518). 68 p. maps. 20 ref. (NAL Call No.: 916762(AGE)).

0027

Beltwide boll weevil/cotton insect management programs: appendix D - program definitions and public costs.
United States - Dept. of Agriculture - Economic Research Service - Natural Resource Economics Division. Washington, D.C., The Service. Extract: Implementation plans were outlined and respective public costs were estimated for six beltwide boll weevil/cotton insect management programs in boll weevil-infested areas. Public cost is only one component of an economic evaluation of alternative programs. If fully implemented, annual public costs of the programs would be: current insect control (CIC), ~ .5 million; optimum pest management with incentives (OPM-I), $36 million; OPM with phased incentives (OPM-PI), $7 million; OPM with no incentives (OPM-NI) $7 million; OPM-NI with boll weevil eradication (OPM-NI-BWE), $7.5 million; and CIC-BWE, $3 million. However, estimated public and private costs would total $460 million during the 9 years to eradicate the boll weevil. Also, public costs for diapause treatments for the OPM program with phased incentives would total about $61 million during the 3 years of implementation. ERS staff report - United States Dept. of Agriculture, Economic Research Service. May 1981. Available from NTIS. May 1981. (AGESS810504). 190 p. (NAL Call No.: 916762(AGE)).

0028

Beltwide boll weevil/cotton insect management programs: appendix E - the Delphi: insecticide use and lint yields.
United States - Dept. of Agriculture - Economic Research Service - Natural Resource Economics Division. Washington, D.C., The Service. The Delphi, a method for systematic collection of information from experts, was modified to obtain biological data required for the economic analysis of boll weevil/cotton insect management programs. Cotton insect management and crop production experts provided detailed data regarding the insecticide use patterns and cotton lint yields they projected would result under each of five alternative insect management options, in 35 subregions of cotton production. These data were used to estimate average insecticide use use and cotton lint yield of six boll weevil/cotton insect management programs. Producers' average insect control costs under each program also were calculated from the information provided by the Delphi experts. ERS staff report - United States Dept. of Agriculture, Economic Research Service. May 1981. Available from NTIS. May 1981. (AGESS810507). 123 p. (NAL Call No.: 916762(AGE)).

0029

Beltwide boll weevil/cotton insect management programs: overall evaluation.
United States - Dept. of Agriculture - Economic Research Service - Natural Resource Economics Division. Washington, D.C., The Service. Extract: Two boll weevil/cotton insect management trials, conducted during 1978-80, demonstrated the technical and operational feasibility of eradicating a boll weevil population from a geographic area or eliminating the need for boll weevil treatments during the cotton-growing season. Six cotton insect management programs were specified and evaluated for application in the boll weevil infested areas of the Cotton Belt. The Optimum Pest Management with No Incentive and Boll Weevil Eradication (OPM-NI-BWE) Program would yield substantially higher total economic and environmental benefits than the other programs. The OPM with No Incentive Program was estimated to yield the highest benefit/cost ratio in terms of public expenditures. ERS staff report - United States Dept. of Agriculture, Economic Research Service. May 15, 1981. Available from NTIS. May 15, 1981. (AGESS810721). 45 p. 16 ref. (NAL Call No.: 916762(AGE)).

FARM ORGANIZATION AND MANAGEMENT

0030

Bollworms: a new threat to High Plains cotton production (Yield losses, economic impact).
Leser, J.F. Memphis (etc.), Southwest Five-State Cotton Growers Association. Summary proceedings - Western Cotton Production ConferenceWestern Cotton Production Conference. 1981. 1981. p. 31-33. (NAL Call No.: 72.8 W522).

0031

Cost effectiveness of postemergence glyphosate and sethoxydim to johnsongrass in soybeans and cotton (Sorghum halepense, herbicides).
Derting, C.W.SWSPB. Sandberg, C.L.; Whatley, T.L.; Wu, C.H. Champaign : The Society. Proceedings - Southern Weed Science Society. 1983. 1983. (36th). p. 21-25. Includes references. (NAL Call No.: 79.9 S08).

0032

An economic analysis of integrated pest management strategies for cotton production in the Coastal Bend Region of Texas.
Masud, S.M.TAEMA. Lacewell, R.D.; Taylor, C.R.; Benefict, J.H.; Lippke, L.A. College Station : The Station. Extract: This economic analysis of short-season cotton production under integrated pest management (IPM) strategies in the Coastal Bend Region of Texas consists of budgeting, breakeven and linear programming analysis. Analysis of data indicated that new IPM production systems provided higher yield and producer net returns by reducing per unit cost and variation in yields. Miscellaneous publication MP - Texas Agricultural Experiment Station. 1980. 1980. (1467). 45 p. Includes 20 references. (NAL Call No.: 100 T31M).

0033

An economic evaluation of the Georgia Extension Service integrated pest management programs for cotton.
Linder, D.K. Wetzstein, M.E.; Musser, W.N.; Douce, G.K. Athens, Ga. : The Stations. Extract: The overall objective of this study is to determine the effectiveness of the Georgia Cooperative Extension Service cotton Integrated Pest Management (IPM) programs. Specific objectives include 1) developing IPM participation indices using objective and subjective data, 2) comparing derived IPM indices across all growers, 3) relating the IPM indices to estimated production, cost, and return models in order to measure the impact of IPM on producers, and 4) determining whether growers are employing the optimal level of IPM and pesticide inputs. Research bulletin - University of Georgia, Experiment Stations. May 1983. May 1983. (293). 32 p. Includes 21 references. (NAL Call No.: S51.E2).

0034

The economics of boll weevil eradication for South Carolina cotton producers.
Hammig, M.D. Jordan, J.W.; Griffin, R.P. Clemson : The Station. Extract: This report focuses on the economic ramifications of a federally operated boll weevil eradication program approved by South Carolina cotton producers in January 1983 from the growers' perspective. Results of grower surveys to ascertain historical costs of cotton insect control are presented and these results are used to project estimated time required for growers to recoup program costs under alternative scenarios of program effectiveness. Under the assumptions of this study, the control program showed positive internal rates of return over the 20-year planning horizon in all cases. The time required to pay the program costs varied from 3 to 10 years. Bulletin - South Carolina Agricultural Experiment Station. Aug 1983. Aug 1983. (650). 13 p. (NAL Call No.: 100 S08 (1)).

0035

Efficacy and economics of weed control methods in cotton (Gossypium hirsutum).
Snipes, C.E.WEESA6. Walker, R.H.; Whitewell, T.; Buchanan, G.A.; McGuire, J.A. Champaign : Weed Science Society of America. Weed science. Jan 1984. v. 32 (1). p. 95-100. Includes references. (NAL Call No.: 79.8 W41).

0036

Evaluation of farm level benefits of bollworm management communities (Cotton yields, production costs, Arkansas).
Scott, D.AKFRA. Cochran, M.; Nicholson, W.F. Jr. Fayetteville : The Station. Arkansas farm research - Arkansas Agricultural Experiment Station. Nov/Dec 1983. v. 32 (6). p. 3. (NAL Call No.: 100 AR42F).

0037

History and cost of the pink bollworm (Lepidoptera: Gelechiidae) in the Imperial Valley (Pectinophora gossypiella, cotton pest, California).
Burrows, T.M.BESAA. Sevacherian, V.; Browning, H.; Baritelle, J. College Park : The Society. Bulletin of the Entomological Society of America. Sept 1982. v. 28 (3). p. 286-290. 11 ref. (NAL Call No.: 423.9 EN8).

0038

Impact of alternative cotton insect management strategies on producer income in Mississippi (Simulation models).
Simpson, E.H. IIIXAAHA. Parvin, D.W. Jr. Washington : The Department. Agriculture handbook - United States Department of

Agriculture. Nov 1983. Includes statistical data. Nov 1983. (589). p. 481-496. maps. Includes references. (NAL Call No.: 1 AG84AH).

0039

Integrated pest management: is it profitable for cotton.
Teague, P. Shulstad, R.N. Fayetteville, Ark. : The Station. Arkansas farm research - Arkansas Agricultural Experiment Station. Nov/Dec 1981. v. 30 (6). p. 4. (NAL Call No.: 100 AR42F).

0040

The potential impact of cotton insect control technology.
LaDue, E.L. Shoemaker, C.; Russell, N.P.; Rovinsky, R.B.; Pimentel, D. Ithaca, N.Y., The Station. Cornell agricultural economics staff paper - Dept. of Agricultural Economics, Cornell University Agricultural Experiment Station. Aug 1979. Aug 1979. (79-31). 28 p. 20 ref. (NAL Call No.: HD1407.C6).

0041

Preliminary econometric analysis of cotton yield and optium pest management in 1977 and 1978 (Trial in Mississippi and boll weevil eradication in North Carolina, production costs and returns).
Lin, Y.N. MS. Smith, J.W.; Parvin, D.W. Jr. Mississippi State, The Station. AEC M.R. - Mississippi Agricultural and Forestry Experiment Station. Mar 1980. Mar 1980. (98). 27 p. 23 ref. (NAL Call No.: 100 M69MR).

0042

Short-season cotton production systems as an alternative to heavy applications of insecticides in the Mississippi Delta.
Bieber, J.L. Lin, Y.N.; Parvin, D.W. Jr. Mississippi State, The Station. Extract: The objective of this paper is to examine the cost-return relationships of new technology involving early varieties, a truncated production season, and fewer pesticide treatments under Delta conditions where the principal insect pests are the cotton bollworm, Heliothis zea (Boddie), and the tobacco budworm, Heliothis virescens (F.). Concern with environmental problems associated with heavy pesticide use has brought about increased interest in alternative pest management strategies. This paper attempts to anticipate whether Delta cotton farmers will find short-season cotton production an acceptable alternative to current practices. AEC research report - Mississippi Agricultural and Forestry Experiment Station. July 1981. July 1981. (125). 31 p. 38 ref. (NAL Call No.: 917031(AGE)).

0043

A total energy model for cotton production.
Sistler, F.E. Smith, P.A. Baton Rouge, The Station. Louisiana agriculture - Louisiana Agricultural Experiment Station. Summer 1981. v. 24 (4). p. 22-23. (NAL Call No.: 100 L939).

GRADING, STANDARDS, LABELLING

0044

Aflatoxin solution is "in the bag" (Cottonseed processing, feed toxicity to cattle).
June 1979. v. 94 (6). Progressive farmer for the West. June 1979. v. 94 (6). p. 49. ill. (NAL Call No.: 6 T311).

0045

Chemical composition of cotton dust and its relation to byssinosis (on reducing the cotton dust in the air): a review of the literature (the specific respiratory disease).
Cooke, T.F. Princeton, Textile Research Institute. Textile research journal. July 1979. v. 49 (7). p. 398-404. 73 ref. (NAL Call No.: 304.8 T293).

0046

Determination of dimethoate residue in some vegetables and cotton plants.
Belal, M.H. Gomaa, E.A.A. New York, Springer Verlag. Bulletin of environmental contamination and toxicology. Aug 1979. v. 22 (6). p. 726-730. ill. 5 ref. (NAL Call No.: RA1270.P35A1).

0047 0048

The role of insects and other plant pests in aflatoxin contamination of corn, cotton, and peanuts--a review (Aspergillus species, feed and food contaminants, vectors). The role of insects and other plant pests in aflatoxin contamination of corn, cotton, and peanuts--a review (Aspergillus species, feed and food contaminants, vectors).
Widstrom, N.W. Widstrom, N.W. Madison, American Society Of Agronomy. Madison, American Society Of Agronomy. Journal of environmental quality. Journal of environmental quality. Jan/Mar 1979. Jan/Mar 1979. v. 8 (1). v. 8 (1). p. 5-11. ill. p. 5-11. ill. 62 ref. 62 ref. (NAL Call No.: QH540.J6).(NAL Call No.: QH540.J6).

CONSUMER ECONOMICS

0049

Dimilin: under a new marketing program (Boll weevil control throughout the cotton belt, United States).
Trammell, F.G. Memphis : National Cotton Council of America. Proceedings of the ... Beltwide Cotton Production-Mechanization Conference. 1983. 1983. p. 88. (NAL Call No.: 72.9 C8292).

PLANT PRODUCTION - GENERAL

0050

Coordinated field and laboratory procedures for the evaluation of cottonseed treatments / by John L. Ivey.
Ivey, John L., 1942. 1970. Thesis (Ph.D.)--Louisiana State University and Agricultural and Mechanical College, 1970. Photocopy. Ann Arbor, Mich. : University Microfilms, 1971. xii, 115 leaves : ill. ; 21 cm. Bibliography: leaves 111-114. (NAL Call No.: DISS 70-18,536).

0051

Desiccant-type pesticides as aids to cotton (Boll dehiscence, machine harvesting).
Goodin, P.L. Washington, U. S. Agricultural Research Service. Agricultural research. Jan 1979. v. 27 (7). p. 13. (NAL Call No.: 1.98 AG84).

0052

The effect of seed quality and fungicide treatments on the microflora of cotton-field soil in the delta of Mississippi.
Davis, R.G. Mississippi State, The Station. Technical bulletin - Mississippi Agricultural and Forestry Experiment Station. July 1981. July 1981. (109). 6 p. 5 ref. (NAL Call No.: S79.E8).

0053

The effects of ozone on the growth, yield, and partitioning of dry matter in cotton.
Oshima, R.J. Braegelmann, P.K. Madison, Wis., American Society of Agronomy. Journal of environmental quality. Oct/Dec 1979. v. 8 (4). p. 474-479. ill. 24 ref. (NAL Call No.: QH540.J6).

0054

Effects of premature plant kill and hand defoliation on cotton performance.
Bilbro, J.D. Wanjura, D.F. College Station, Tex., The Station. MP.Texas. Agricultural Experiment Station. Oct 1979. Oct 1979. (1436). 6 p. ill. 8 ref. (NAL Call No.: 100 T31M).

0055

Evaluating new cotton varieties (Yields, insect resistance, Lygus lineolaris, Pseudatomoscelis seriatus).
Boquet, D.J. Williams, B.R. Baton Rouge, Louisiana Agricultural Experiment Station. Louisiana agriculture. Spring 1979. v. 22 (3). p. 12-13. ill. (NAL Call No.: 100 L939).

0056

Factors delaying maturity and limiting cotton yields in Alabama (Date of planting, nitrogen rates, pesticide damage).
Gaylor, M.J. Buchanan, G.A. Auburn, The Station. Highlights of agricultural research.Alabama. Agricultural Experiment Station. Summer 1979. v. 26 (2). p. 3. ill. (NAL Call No.: 100 AL1H).

0057

Influence of various insecticides on yield parameters of two cotton genotypes.
Weaver, J.B. Jr. All, J.N. Baltimore, Entomological Society of America. Journal of economic entomology. Feb 15, 1979. v. 72 (1). p. 119-123. ill. 10 ref. (NAL Call No.: 421 J822).

0058

Performance of multi-adversity resistant (MAR) cottons in the Texas Rolling Plains (Cultivars, yields, Verticillium wilt).
Clark, L.E. Bourland, F.M. College Station, Tex., The Station. PR.Texas. Agricultural Experiment Station. May 1979. May 1979. (3560). 9 p. ill. 6 ref. (NAL Call No.: 100 T31P).

0059

Pros and cons of stub cotton (in Arozona, insect control).
Taylor, B.B. Hathorn, S. Jr. Memphis, National Cotton Council of America. Proceedings.Beltwide Cotton Production-Mechanization Research Conference. 1979. 1979. p. 25-26. ill. (NAL Call No.: SB249.N6).

0060

Short season cotton in the Imperial Valley with special reference to pest management (Pectinophora gossypiella, yields).
Walhood, V.T. Memphis (etc.), Southwest Five-State Cotton Growers Association. Summary proceedings - Western Cotton Production ConferenceWestern Cotton Production Conference. 1979. 1979. p. 48-51. (NAL Call No.: 72.8 W522).

0061

Tamcot CAMD-E, a multi-adversity resistant cotton variety (Breeding for disease resistance).
Bird, L.S. College Station, Tex., The Station. Leaflet L.Texas. Agricultural Experiment Station. Dec 1978. Dec 1978. (1720). 6 p. ill. (NAL Call No.: 275.29 T313).

0062

Tamcot SP21S, a multi-adversity resistant cotton variety (Breeding for disease resistance).
Bird, L.S. College Station, Tex., The Station. Leaflet L.Texas. Agricultural Experiment Station. Dec 1978. Dec 1978. (1721). 6 p. ill. (NAL Call No.: 275.29 T313).

0063

Tamcot SP37H, a multi-adversity resistant cotton variety (Breeding for disease resistance).
Bird, L.S. College Station, Tex., The Station. Leaflet L.Texas. Agricultural Experiment Station. Dec 1978. Dec 1978. (1672). 6 p. ill. (NAL Call No.: 275.29 T313).

0064

Variety status for multiple disease resistant strains of cotton TAMCOT SP21, TAMCOT SP23, TAMCOT SP37 for controlling adversities in production.
Bird, Luther S. College Station, Tex. Texas A&M University, The Dept. of Plant Sciences 1971. xiii, 129 leaves : ill. (NAL Call No.: SB249.B57).

PLANT PRODUCTION - HORTICULTURAL CROPS

0065

Response of cotton and corn grown in fumigated soils / by Joseph Herman Hurlimann.
Hurlimann, Joseph Herman. (1974?). Thesis (Ph.D)--University of California, Berkeley, 1974. Photocopy. v, 94 leaves : ill. ; 28 cm. Bibliography: leaves 86-94. (NAL Call No.: SB973.3.H8).

PLANT PRODUCTION - FIELD CROPS

0066

An analysis of the demand for inputs in cotton production at the Southeast Georgia Branch Station (Emphasis on labor, machinery, fertilizer, pesticides and seed, mathematical models).
Bishop, K.C. Saunders, F.B.; Wetzstein, M.E.; Perry, C.E. Athens, Ga. : The Stations. Research bulletin - University of Georgia, Experiment Stations. June 1984. June 1984. (312). 26 p. Includes 33 references. (NAL Call No.: S51.E2).

0067

Compendium of cotton diseases / G.M. Watkins, editor ; manuscript prepared by the Cotton Disease Council.
Watkins, G. M. St. Paul, Minn. (3340 Pilot Knob Road) American Phytopathological Society 1981. Includes bibliographies and index. vii, 87 p. : ill. (some col.) ; 28 cm. (NAL Call No.: SB608.C8C65).

0068

Cotton ball period response to water stress and pink bollworm (Gossypium hirsutum, Pectinophora gossypiella, early irrigation termination, Arizona).
Kittock, D.L.AGJOA. Henneberry, T.J.; Bariola, L.A.; Taylor, B.B.; Hofmann, W.C. Madison : American Society of Agronomy. Agronomy journal. Jan/Feb 1983. v. 75 (1). p. 17-20. ill. 17 ref. (NAL Call No.: 4 AM34P).

0069

Cotton insect management with special reference to the boll weevil / edited by R.L. Ridgway, E.P. Lloyd, and W.H. Cross.
Ridgway, R. L.; Lloyd, E. P.; Cross, W. H.; (William H.). (Washington, D.C.?) U.S. Dept. of Agriculture, Agricultural Research Service for sale by the Supt. of Docs. 1983. "Issued November 1983.". xiii, 591 p. : ill., maps ; 23 cm. -. Includes bibliographies. (NAL Call No.: 1 Ag84Ah no.589).

0070

Cotton-soybean rotation for reniform nematode control (Rotylenchulus reniformis, resistant cultivars, cultivars, Louisiana).
Williams, C.LAXBA. Gilman, D.F.; Jones, J.E.; Birchfield, W. Baton Rouge : The Station. Bulletin - Louisiana Agricultural Experiment Station. Jan 1983. Jan 1983. (741). 22 p. Includes references. (NAL Call No.: 100 L93 (1)).

0071

Crop rotation vs. monoculture. I. Insect control (Pests of maize, cotton, rice, soybeans, sorghum).
Barnes, G. Madison, Wis., American Society of Agronomy. Crops and soils magazine. Jan 1980. v. 32 (4). p. 15-17. ill. (NAL Call No.: 6 W55).

0072

Degree-days: an aid in crop and pest management (Cotton, Heliothis zea).
Wilson, L.T.CAGRA. Barnett, W.W. Berkeley : The Station. California agriculture - California Agricultural Experiment Station. Jan/Feb 1983. v. 37 (1/2). p. 4-7. ill. (NAL Call No.: 100 C12CAG).

0073

Development of cotton and associated beneficial and pest insect populations (Heliothis, Pectinophora gossypiella) in a ratoon field at Phoenix, Ariz.
Flint, H.M. AR-W-AR-W. Salter, S.S.; Walters, S. Washington, D.C., The Region. Agricultural reviews and manuals. ARM-W.United States. Dept. of Agriculture. Science and Education Administration. Western Region. May 1980. May 1980. (15). 14 p. 14 ref. (NAL Call No.: aS21.A75U64).

0074

Developmental times of Heliothis zea and Heliothis virescens (Lepidoptera: Noctuidae) and pupae in cotton (Mississippi).
Hogg, D.B. Calderon C., M. College Park, Md., Entomological Society of America. Environmental entomology. Apr 1981. v. 10 (2). p. 177-179. ill. 11 ref. (NAL Call No.: QL461.E532).

0075

Economic impact of integrated pest management strategies for cotton production in the Coastal Bend Region of Texas.
Masud, S.M. Lacewell, R.D.; Taylor, C.R.; Benedict, J.H.; Lippke, L.A. Gainesville, Fla., Southern Agricultural Economics Assoc. Extract: This study examines the value and economic impact of short-season cotton production system under IPM strategies as it relates to yield and producer returns in the Coastal Bend Region of Texas. The study has implications for cotton producers, industry leaders, and other professionals for a better understanding of the economics of cotton production and for analyzing possible future production decisions relating to cotton. Southern journal of agricultural economics. Dec 1981. v. 13 (2). p. 47-52. 11 ref. (NAL Call No.: HD101.S6).

0076

Effect of fungicide seed treatments and seed quality on seedling diseases and yield of cotton.
Minton, E.B. Papavizas, G.C.; Lewis, J.A. St. Paul, Minn., American Phytopathological Society. Plant disease. Sept 1982. v. 66 (9). p. 832-835. 13 ref. (NAL Call No.: 1.9 P69P).

0077

Effect of fungicides, insecticides, and their combinations on stand establishment and yield of cotton.
Kappelman, A.J. Jr. St. Paul, Minn., American Phytopathological Society. Plant disease. Dec 1980. v. 64 (12). p. 1076-1078. 8 ref. (NAL Call No.: 1.9 P69P).

0078

Effect of pest damage intensity on the growth, maturation, and yield of nectaried and nectariless cotton.
Adjei-Maafo, I.K.EVETB. Wilson, L.T.; Thomson, N.J.; Blood, P.R.B. College Park : Entomological Society of America. Environmental entomology. Apr 1983. v. 12 (2). p. 353-358. Includes references. (NAL Call No.: QL461.E532).

0079

Effects of row spacing and cotton cultivars on seedling diseases, verticillium wilt (caused by Verticillium dahliae), and yield.
Minton, E.B. AR-SO. Madison, Wis., Crop Science Society of America. Crop science. May/June 1980. v. 20 (3). p. 347-350. 8 ref. (NAL Call No.: 64.8 C883).

0080

Effects of tillage and herbicides on bermudagrass control in cotton (Cynodon dactylon, weeds, Mississippi Delta).
Kurtz, M.E.RRMSD. Mississippi State : The Station. Research report - Mississippi Agricultural and Forestry Experiment Station. Nov 1982. v. 7 (20). 4 p. ill. Includes references. (NAL Call No.: S79.E37).

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ES191 defoliation of cotton.
Washington, D.C. Smithsonian Science Information Exchange 1976. Each leaf, "Notice of research project", provides title of project, researcher, performing, and supporting agencies for the project, with brief information on objective, approach, and progress. (19) leaves ; 28 cm. (NAL Call No.: SB608.C8E7).

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Evaluation of farm level benefits of bollworm management communities (Cotton yields, production costs, Arkansas).
Scott, D.AKFRA. Cochran, M.; Nicholson, W.F. Jr. Fayetteville : The Station. Arkansas farm research - Arkansas Agricultural Experiment Station. Nov/Dec 1983. v. 32 (6). p. 3. (NAL Call No.: 100 AR42F).

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Field evaluation of cotton in Puerto Rico for pink bollworm resistance / by R.L. Wilson and F.D. Wilson.
Wilson, R. L. Wilson, F. D. Berkeley, Calif. Agricultural Research (Western Region), Science and Education Administration, U.S. Dept. of Agriculture 1979. Caption title -"February 1979.". 9 p. ; 26 cm. -. Includes bibliographical references. (NAL Call No.: aS21.A75U68 no.2).

0084

Fruiting of cotton. I. Effects of moisture status on flowering (Gossypium hirsutum, water conservation, deficit irrigation, stress, Arizona).
Guinn, G.AGJOAT. Mauney, J.R. Madison : American Society of Agronomy. Agronomy journal. Jan/Feb 1984. v. 76 (1). p. 90-94. ill. Includes references. (NAL Call No.: 4 AM34P).

0085

Fruiting of cotton. II. Effects of plant moisture status and active boll load on boll retention (Gossypium hirsutum, deficit irrigation, stress, water conservation, Arizona).
Guinn, G.AGJOAT. Mauney, J.R. Madison : American Society of Agronomy. Agronomy journal. Jan/Feb 1984. v. 76 (1). p. 94-98. ill. Includes references. (NAL Call No.: 4 AM34P).

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General characteristics of selected cotton varieties (Performance, boll size, Fusarium wilt resistance).
Bridge, R.R. Chism, J.F. Mississippi State, Miss. : The Station. Bulletin - Mississippi Agricultural & Forestry Experiment Station. Sept 1983. Sept 1983. (921). 5 p. Includes references. (NAL Call No.: S79.E3).

0087

Growth and development of the cotton plant in Arizona / Robert E. Dennis, Robert E. Briggs. Dennis, Robert E. Briggs, Robert E. Tucson University of Arizona, Cooperative Extension Service (1981?). Caption title -Pesticide Applicator Training collection -"8168.". 7, (1) p. : ill. ; 28 cm. Bibliography: p. (8). (NAL Call No.: SB249.D46).

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Herbicide field trials on field crops, 1980 (Cotton, soybeans, yields). Frans, R. McClelland, M.; Terhune, E. Fayetteville, Ark., The Station. Mimeograph series - Arkansas. Agricultural Experiment Station. Apr 1981. Apr 1981. (288). 62 p. (NAL Call No.: 100 AR42M).

0089

Increase of cold tolerance in cotton plant (Gossypium Hirsutum L.) by mepiquat chloride / principal investigators S.Y. Huang ... (et al.). Huang, S. Y. Houston, Tex. Lyndon B. Johnson Space Center, NASA Springfield, Va. for sale by National Technical Information Service 1982. AgRISTARS (Agriculture and Resources Inventory Surveys Through Aerospace Remote Sensing) is a joint program of the U.S. Dept. of Agriculture, the National Aeronautics and Space Administration, the National Oceanic and Atmospheric Administration, the Agency for International Development, and the U.S. Dept. of the Interior -U.S. Dept. of Agriculture, Agricultural Research Service, Soil and Water Conservation Research -"February 1982. -Early warning and crop condition assesement EW-U2-04243. 8 leaves : ill. ; 28 cm. -. Includes bibliographical references. (NAL Call No.: SB249.I57).

0090

Influence of cotton (Gossypium hirsutum) densities on competitiveness of pigweed (Amaranthus spp.) and sicklepod (Cassia obtusifolia). Street, J.E. Buchanan, G.A.; Crowley, R.H.; McGuire, J.A. Champaign, Ill., Weed Science Society of America. Weed science. May 1981. v. 29 (3). p. 253-256. ill. 11 ref. (NAL Call No.: 79.8 W41).

0091

The influence of cultural practices on arthropod populations in cotton / Perry A. Glick. Glick, Perry A. New Orleans, La. Agricultural Research Service, Southern Region, U.S. Dept. of Agriculture 1983. "January 1983.". vii, 52 p. : ill., maps ; 26 cm. -. Bibliography: p. 51-52. (NAL Call No.: aS21.A75U65 no.32).

0092

Influence of time of planting and distance from the cotton (Gossypium hirsutum) row of pitted morningglory (Ipomoea lacunosa), prickly sida (Sida spinosa), and redroot pigweed (Amaranthus retroflexus) on competiveness with cotton. Buchanan, G.A. Street, J.E.; Crowley, R.H. Champaign, Ill., Weed Science Society of America. Weed science. Sept 1980. v. 28 (5). p. 568-572. ill. 13 ref. (NAL Call No.: 79.8 W41).

0093

Insect populations in cotton produced under conservation tillage (Peridroma saucia, Lygus lineoloris, Heliothis spp., Gossypium hirsutum, Trifolium incarnatum, cutworms, tarnished plant bugs, bollworms, budworms, crimson clover). Gaylor, M.J. Fleischer, S.J.; Muehleisen, D.P.; Edelson, J.V. Ankeny, IA : Soil Conservation Society of America. Journal of soil and water conservation. Jan/Feb 1984. v. 39 (1). p. 61-64. Includes references. (NAL Call No.: 56.8 J822).

0094

Insecticide use on cotton in the United States--1969, 1972, and 1974. Cooke, F.T. Jr. Parvin, D.W. Jr. Washington, D.C., The Service. Extract: There were dramatic increases in cost of insect control from 1969 to 1974. The large increase in the usage of toxaphene and methyl parathion between 1972 and 1974 reflect the impact of banning DDT. A mixture of these two insecticides was the best alternative to mixtures using DDT. Data on cost and quantities of specific major insecticides used on cotton is reported for the entire belt. Data on acres treated, cost per acre, and average number of applications per treated acre are included. ERS staff report - U.S. Dept. of Agriculture, Economic Research Service. Apr 1981. Available from NTIS. Apr 1981. (AGESS810331). 19 p. 3 ref. (NAL Call No.: 916762(AGE)).

0095

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New machine paves way for three trip crop (Herbicides, cotton, soybeans).
Garner, T.H. Memphis, Tenn., Meister. Cotton. International edition. 1981. 1981. p. 70, 72. ill. (NAL Call No.: 72.8 C8214I).

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Brown, James M.; ed. Memphis, Tenn. National Cotton Council of America (1979). Cover title. 103 p. : ill. ; 28 cm. Includes bibliographical references. (NAL Call No.: SB249.B4 1979).

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PLANT BREEDING

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Kappelman, A.J. Jr. AR-SO. Jenkins, J.N.; Parrott, W.L. Madison, Wis., Crop Science Society of America. Crop science. Nov/Dec 1979. v. 19 (6). p. 795-798. ill. 7 ref. (NAL Call No.: 64.8 C883).

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Generation mean analyses of various allelochemics in cottons (Host-plant resistance, Heliothis vivescens).
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A genetic and breeding study of pink bollworm resistance and agronomic properties in cotton (Pectinophora gossypiella, Gossypium hirsutum).
Wilson, F.D.CRPSA. George, B.W. Madison : Crop Science Society of America. Crop science. Jan/Feb 1983. v. 23 (1). p. 1-4. Includes references. (NAL Call No.: 64.8 C883).

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Geneticist develops cotton strain that eliminates health problems (Byssinosis, textile workers' brown-lung disease).
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0151

Genotype X environment interaction of cottons varying in insect resistance.
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Germplasm release of Fusarium (oxysporum vasinfectum) wilt-resistant, non-commercial stocks of cotton involving Gossypium hirsutum L. race accessions (Breeding for disease resistance).
Jenkins, J.N. McCarty, J.C. Mississippi State, The Station. Research report - Mississippi Agricultural and Forestry Experiment Station.Mississippi. Agricultural and Forestry Experiment Station. July 1979. v. 4 (20). 3 p. ill. (NAL Call No.: S79.E37).

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Greenhouse technique for evaluating resistance to the bandedwinged whitefly (Homoptera: Aleyrodidae) used to evaluate thirty-five foreign cotton cultivars (Trialeurodes abutilonea, southeastern USA).
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Kappelman, A.J. Jr. Bird, L.S. Madison, Wis., Crop Science Society of America. Crop science. Jan/Feb 1981. v. 21 (1). p. 66-68. 16 ref. (NAL Call No.: 64.8 C883).

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Induced resistance of cotton seedlings to mites (Tetranychus urticae, Tetranychus turkestani, Tetranychus pacificus).
Karban, R. Carey, J.R. Washington, D.C. : American Association for the Advancement of Science. Science. July 6, 1983. v. 225 (4657). p. 53-54. ill. Includes references. (NAL Call No.: 470 SCI2).

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Influence of five Gossypium species cytoplasms on yield, yield components, fiber properties, and insect resistance in upland cotton.
Meredith, W.R. Jr. Meyer, V. Madison, Wis., Crop Science Society of America. Crop science. Sept/Oct 1979. v. 19 (5). p. 647-650. ill. 3 ref. (NAL Call No.: 64.8 C883).

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Influence of Gossypium cytoplasms on expression of bacterial blight (Cotton breeding and genetics, cultivars, Xanthomonas malvacearum).
Mahill, J.F.RRMSD. Jenkins, J.N.; Meredith, W.R. Jr.; Meyer, V. Mississippi State : The Station. Research report - Mississippi Agricultural and Forestry Experiment Station. Oct 1982. v. 7 (17). 3 p. Includes references. (NAL Call No.: S79.E37).

0160

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Carter, W.W. Ames, Iowa, Society of Nematologists. Journal of nematology. July 1982. v. 14 (3). p. 343-346. ill. 17 ref. (NAL Call No.: QL391.N4J62).

0161

Inheritance and interrelations of some seedling disease escape characteristics in cotton, Gossypium hirsutum L. / by Salem Abdel-Kirim Abd-Alla.
Abd-Alla, Salem Abdel-Kirim, 1936. 1970. Thesis (Ph.D.)--Texas A&M University, 1970. Photocopy. Ann Arbor, Mich. : University Microfilms, 1971. viii, 97 leaves ; 21 cm. Bibliography: leaves 92-96. (NAL Call No.: DISS 71-17,790).

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Inheritance of gossypol in leaves and flower buds of cotton and its relationship to insect and disease resistance / by Indra Deo Singh.
Singh, Indra Deo, 1945. 1971. Thesis (Ph.D.)--University of Georgia, 1971. Photocopy. Ann Arbor, Mich. : University Microfilms, 1972. v, 91 leaves ; 21 cm. Includes bibliographies. (NAL Call No.: DISS 72-2,545).

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Linkage relationships between the B4 gene for bacterial blight resistance and genes for pollen color, lint percentage and seedling traits in Gossypium hirsutum L. / by Mohamed-Aly Fathalla Tayel.
Tayel, Mohamed-Aly Fathalla, 1930. 1972. Thesis (Ph.D.)--Texas A&M University, 1972. Photocopy of typescript. Ann Arbor: University Microfilms, 1972. 53 leaves ; 21 cm. Bibliography: leaves 50-52. (NAL Call No.: DISS 72-24,338).

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0166

Methods: evaluating cotton for resistance to plant bugs (Lygus lineolaris, Lygus hesperus, Pseudatomoscelis seriatus, Gossypium spp., genotypes, cultivars).
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0169

Methods of evaluating cotton for resistance to pink bollworm, cotton leafperforator, and lygus bugs (Gossypium spp., Pectinophora gossypiella, Bucculatrix thurberiella, Lygus hesperus).
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Methods of evaluating cotton for resistance to the boll weevil (Anthomonus grandis, Gossypium spp., comparisons, cotton lines).
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Methods of screening cotton for resistance to Heliothis spp. (Gossypium hirsutum, includes procedure for determing gossypol content of flower buds).
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0176

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0178

Pink bollworm (Lepidoptera: Gelechiidae): selecting for antibiosis in artificially and naturally infested cotton plants (Pectinophora gossypiella).
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0179

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Plant resistance and modified cotton culture (Anthonomus grandis, integrated pest management, insesct resistant cultivars).
Namken, L.N.XAAHA. Heilman, M.D.; Jenkins, J.N.; Miller, P.A. Washington : The Department. Agriculture handbook - United States Department of Agriculture. Nov 1983. Nov 1983. (589). p. 73-101. maps. Includes references. (NAL Call No.: 1 AG84AH).

0181

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0182

A quantitative technique for evaluating cotton for root-knot nematode resistance (Meloidogyne incognita acritia, breeding for resistance).
Shepherd, R.L. St. Paul, American Phytopathological Society. Phytopathology. Apr 1979. v. 69 (4). p. 427-430. ill. 20 ref. (NAL Call No.: 464.8 P56).

0183

A quantitative technique for evaluating cotton for root-knot nematode resistance (Meloidogyne incognita acrita, Gossypium spp., breeding lines, comparisons).
Shepherd, R.L.SCSBA. Mississippi State : Mississippi Agricultural and Forestry Experiment Station. Southern cooperative series bulletin. Apr 1983. Information assembled for Regional Research Project S-155. Apr 1983. (280). p. 1-6. Includes references. (NAL Call No.: 100 G29SO).

0184

Registration of HYC79-6 cotton germplasm (Breeding for disease and pest resistance).
Sappenfield, W.P. Madison, Wis. : Crop Science Society of America. Crop science. July/Aug 1984. v. 24 (4). p. 829. Includes references. (NAL Call No.: 64.8 C883).

0185

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Kappelman, A.J. Jr. Madison, Wis., Crop Science Society of America. Crop science. May/June 1982. v. 22 (3). p. 693-694. (NAL Call No.: 64.8 C883).

0186

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Leigh, T.F.SCSBA. Mississippi State : Mississippi Agricultural and Forestry Experiment Station. Southern cooperative series bulletin. Apr 1983. Information assembled for Regional Research Project S-155. Apr 1983. (280). p. 56-58. Includes references. (NAL Call No.: 100 G29SO).

0187

Resistance of cotton, Gossypium hirsutum L., to natural field populations of twospotted spider mites (Acari: Tetranychidae) (Tetranychus urticae).
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Kappelman, A.J. Jr. St. Paul, Minn., American Phytopathological Society. Plant disease. Sept 1982. v. 66 (9). p. 837-839. 11 ref. (NAL Call No.: 1.9 P69P).

0189

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0190

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Halloin, J.M.SCSBA. Mississippi State : Mississippi Agricultural and Forestry Experiment Station. Southern cooperative series bulletin. Apr 1983. Information assembled for Regional Research Project S-155. Apr 1983. (280). p. 12-16. Includes references. (NAL Call No.: 100 G29SO).

0191

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0192

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Schuster, M.F.SCSBA. Mississippi State : Mississippi Agricultural and Forestry Experiment Station. Southern cooperative series bulletin. Apr 1983. Information assembled for Regional Research Project S-155. Apr 1983. (280). p. 54-56. (NAL Call No.: 100 G29SO).

0193

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0194

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0196

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Bird, L.S. College Station, Tex., The Station. Leaflet L.Texas. Agricultural Experiment Station. Dec 1978. Dec 1978. (1721). 6 p. ill. (NAL Call No.: 275.29 T313).

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0198

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0201

Variability in flower-bud gossypol content and agronomic and fiber properties within the primitive race collection of cotton (Breeding stocks tested for resistance to the tobacco budworm, Heliothis virescens).
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0202

Water relations and carbon-14 assimilation of cotton with different leaf morphology (Genotypic differences, stress).
Karami, E. AR-SD. Krieg, D.R.; Quisenberry, J.E. Madison, Wis., Crop Science Society of America. Crop science. July/Aug 1980. v. 20 (4). p. 421-426. ill. 24 ref. (NAL Call No.: 64.8 C883).

PLANT ECOLOGY

0203

Competition of common cocklebur (Xanthium pensylvanicum) with cotton (Gossypium birsutum) (Weed biology).
Snipes, C.E. Buchanan, G.A.; Street, J.E.; McGuire, J.A. Champaign, Ill., Weed Science Society of America. Weed science. Sept 1982. v. 30 (5). p. 553-556. ill. 10 ref. (NAL Call No.: 79.8 W41).

0204

The effect of temperature on the chemical composition of hypocotyls of cotton and on the seedling disease incited by Rhizoctonia solani / by Richard E. Hunter.
Hunter, Richard E. (Richard Edmund), 1923. 1968. Thesis (Ph.D.)--Oklahoma State University, 1968. Photocopy. Ann Arbor, Mich. : University Microfilms, 1970. viii, 68 leaves : ill. ; 21 cm. Bibliography: leaves 56-59. (NAL Call No.: DISS 69-14,264).

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0206

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PLANT STRUCTURE

0207

Cotyledon and leaf ultrastructure of a bacterial blight-immune cotton line inoculated with a low level of Xanthomonas campestris pv. malvacearum (Gossypium hirsutum).
Al-Mousawi, A.H. Richardson, P.E.; Essenberg, M.; Johnson, W.M. St. Paul, Minn., American Phytopathological Society. Phytopathology. Sept 1982. v. 72 (9). p. 1230-1234. ill. 13 ref. (NAL Call No.: 464.8 P56).

0208

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0209

Ultrastructural studies of a compatible interaction between Xanthomonas campestris pv. malvacearum and cotton (Gossypium hirsutum, bacterial blight).
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PLANT NUTRITION

0210

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Goodin, P.L. Washington, U. S. Agricultural Research Service. Agricultural research. Jan 1979. v. 27 (7). p. 13. (NAL Call No.: 1.98 AG84).

0211

Effect of (the herbicide) glyphosate on auxin transport in corn and cotton tissues.
Baur, J.R. Bethesda, American Society of Plant Physiologists. Plant physiology. May 1979. v. 63 (5). p. 882-886. ill. 22 ref. (NAL Call No.: 450 P692).

0212

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Erwin, D.C. Tsai, S.D. St. Paul, American Phytopathological Society. Phytopathology. Mar 1979. v. 69 (3). p. 283-287. ill. 27 ref. (NAL Call No.: 464.8 P56).

0213

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0214

Predicting population cycles of the pink bollworm (Pectinophora gossypiella, pest of cotton) by thermal summation (in southern California).
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0215

Synthetic route to an aromatic analogue of strigol (Isolated from the root exudates of cotton, used in weed control).
Kendall, P.M. Johnson, J.V. Easton, Pa., American Chemical Society. Journal of organic chemistry. Apr 17, 1979. v. 44 (9). p. 1421-1424. ill. 13 ref. (NAL Call No.: 381 J827).

PLANT PHYSIOLOGY AND BIOCHEMISTRY

0216

Absorption, translocation, and fate of the herbicide, 2-(3,4-dichlorophenyl)-4-methyl-1,2,4-oxadiazolidine-3,5-dione, in cotton / by Donald Wayne Jones.
Jones, Donald Wayne, 1941. 1971. Thesis (Ph.D.)--Virginia Polytechnic Institute and State University, 1971. Photocopy of typescript. Ann Arbor: University Microfilms, 1972. xi, 79 leaves ; 21 cm. Includes bibliographies. (NAL Call No.: DISS 72-12,507).

0217

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0218

Causes of square and boll shedding in cotton (Abscission, environmental conditions, hormonal balance, enzyme activities).
Guinn, G. Washington : The Department. Technical bulletin - United States Dept. of Agriculture. Sept 1982. Literature review. Sept 1982. (1672). 22 p. ill. 8 p. ref. (NAL Call No.: 1 AG84TE).

0219

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0220

Comparative degradation of the pyrethroids tralomethrin, tralocythrin, deltamethrin, and cypermethrin on cotton and bean foliage.
Cole, L.M. Casida, J.E.; Ruzo, L.O. Washington, American Chemical Society. Journal of agricultural and food chemistry. Sept/Oct 1982. v. 30 (5). p. 916-920. 2 p. ref. (NAL Call No.: 381 J8223).

0221

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0222

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Jenkins, J.N.CRPSAY. Hedin, P.A.; Parrott, W.L.; McCarty, J.C. Jr.; White, W.H. Madison : Crop Science Society of America. Crop science. Nov/Dec 1983. v. 23 (6). p. 1195-1198. Includes references. (NAL Call No.: 64.8 C883).

0223

Effect of boron on the incorporation of glucose from UDP (uridine diphosphate)-glucose into cotton fibers grown in vitro (includes deficiency).
Dugger, W.M. Palmer, R.L. Bethesda, Md., American Society of Plant Physiologists. Plant physiology. Feb 1980. v. 65 (2). p. 266-273. ill. 51 ref. (NAL Call No.: 450 P692).

0224

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Hatzios, K.K. Penner, D. East Lansing, Association of Official Seed Analysts. Journal of seed technology. 1979. v. 4 (1). p. 12-17. 11 ref. (NAL Call No.: SB113.2.J6).

0225

Effect of methomyl on the concentration of anthocyanin, tannin, and chlorophyll in cotton leaves.
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0226

The effect of temperature on the chemical composition of hypocotyls of cotton and on the seedling disease incited by Rhizoctonia solani / by Richard E. Hunter.
Hunter, Richard E. (Richard Edmund), 1923. 1968. Thesis (Ph.D.)--Oklahoma State University, 1968. Photocopy. Ann Arbor, Mich. :

University Microfilms, 1970. viii, 68 leaves : ill. ; 21 cm. Bibliography: leaves 56-59. (NAL Call No.: DISS 69-14,264).

0227

Effect of 2,4-D (dichlorophenoxyacetic acid) on cotton yield, floral nectar, seed germination, and honeybee visits (Apis mellifera).
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0228

Effects of some pesticide combinations on cotton growth and disease / by Joseph Earl Elson.
Elson, Joseph Earl. Ann Arbor, Mich. University Microfilms 1973. Thesis--University of Arizona, 1972. Facsimile produced by microfilm-xerography. xiii, 89 leaves. Bibliography: leaves 80-89. (NAL Call No.: DISS 73-7,803).

0229

Effects of trifluralin and/or phorate on cotton roots / by Ghanem Saadala Hassawy.
Hassawy, Ghanem Saadala, 1935. 1970. Thesis (Ph.D.)--University of Arizona, 1970. Photocopy. Ann Arbor, Mich. : University Microfilms, 1971. xv, 134 leaves : ill. ; 21 cm. Bibliography: leaves 128-134. (NAL Call No.: DISS 70-20,677).

0230

ES191 defoliation of cotton.
Washington, D.C. Smithsonian Science Information Exchange 1976. Each leaf, "Notice of research project", provides title of project, researcher, performing, and supporting agencies for the project, with brief information on objective, approach, and progress. (19) leaves ; 28 cm. (NAL Call No.: SB608.C8E7).

0231

Evaluation of cotton polyphenols as factors of resistance of root-knot nematode and fusarium wilt.
Hedin, P.A. Shepherd, R.L.; Kappelman, A.J. Jr. Washington, D.C. : American Chemical Society. Journal of agricultural and food chemistry. May/June 1984. v. 32 (3). p. 633-638. ill. Includes references. (NAL Call No.: 381 J8223).

0232

Growth of callus and suspension culture cells from cotton varieties (Gossypium hirsutum L.) resistant and susceptible to Xanthomonas malvacearum (E. F. SM.) Dows.
Ruyack, J. Downing, M.R.; Chang, J.S.; Mitchell, E.D. Jr. Rockville, Md., The Association. In vitro; journal of the Tissue Culture Association.Tissue Culture Association. May 1979. v. 15 (5). p. 368-373. ill. 22 ref. (NAL Call No.: QH585.A1I58).

0233

The influence of Rhizoctonia solani Kuhn and of Meloidogyne incognita acrita Chitwood on the infection of cotton plants by Verticillium albo-atrum Reinke and Berth. / by Farid Yousef Khoury.
Khoury, Farid Yousef, 1937. 1970. Thesis (Ph.D.)--University of Arizona, 1970. Photocopy. Ann Arbor, Mich. : University Microfilms, 1971. xii, 67 leaves ; 21 cm. Bibliography: leaves 61-67. (NAL Call No.: DISS 70-13,736).

0234

Isolation and characterization of dimerum acid from Verticillium dahliae (Fungal phytopathogen, infection of cotton plants, Gossypium, iron physiology).
Harrington, G.J. Neilands, J.B. New York ; Basel : Marcel Dekker, 1982. Iron nutrition and interactions in plants : Brigham Young University, August 12-14, 1981 / edited by S.D. Nelson ... (et al.). p. 675-682. ill. 17 ref. (NAL Call No.: QK867.J67 v. 5, nos. 4-7).

0235

Metabolism of O-ethyl O-(4-nitrophenyl) (14C) (carbon isotope) phenylphosphonothioate in cotton and soil (Insecticides).
Chrzanowski, R.L. Leitch, R.E. Washington, D.C., American Chemical Society. Journal of agricultural and food chemistry. Jan/Feb 1982. v. 30 (1). p. 155-161. ill. Includes 13 ref. (NAL Call No.: 381 J8223).

0236

Methods of screening cotton for resistance to Heliothis spp. (Gossypium hirsutum, includes procedure for determing gossypol content of flower buds).
Dilday, R.H.SCSBA. Mississippi State : Mississippi Agricultural and Forestry Experiment Station. Southern cooperative series bulletin. Apr 1983. Information assembled for Regional Research Project S-155. Apr 1983. (280). p. 26-36. Includes references. (NAL Call No.: 100 G29SO).

0237

Seasonal variation in flowerbud gossypol content in cotton (A substance toxic to several insect pests, cultivars).
Dilday, R.H. Shaver, T.N. Madison, Wis., Crop Science Society of America. Crop science. Nov/Dec 1981. v. 21 (6). p. 956-960. ill. 12 ref. (NAL Call No.: 64.8 C883).

0238

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Klich, M.A.JJASD. Lee, L.S. Champaign : The Society. Journal of the American Oil Chemists' Society. Dec 1982. v. 59 (12). p. 545. 5 ref. (NAL Call No.: 307.8 J82).

0239

Transient charge transfer in living plants undergoing electrostatic spraying (Cotton, leaf wilt, drought stress, pesticides).
Lane, M.D.TAAEA. Law, S.E. St. Joseph : The Society. Transactions of the ASAE - American Society of Agricultural Engineers. Sept/Oct 1982. v. 25 (5). p. 1148-1153, 1159. ill. 10 ref. (NAL Call No.: 290.9 AM32T).

0240

Uptake, accumulation, and translocation of arsenical compounds by cotton (Defoliant).
Marcus-Wyner, L. Rains, D.W. Madison : American Society of Agronomy. Journal of environmental quality. Oct/Dec 1982. v. 11 (4). p. 715-719. 18 ref. (NAL Call No.: QH540.J6).

0241

Variability in flower-bud gossypol content and agronomic and fiber properties within the primitive race collection of cotton (Breeding stocks tested for resistance to the tobacco budworm, Heliothis virescens).
Dilday, R.H. AR-SO. Shaver, T.N. Madison, Wis., Crop Science Society of America. Crop science. Jan/Feb 1980. v. 20 (1). p. 91-95. ill. 13 ref. (NAL Call No.: 64.8 C883).

PLANT TAXONOMY AND GEOGRAPHY

0242

An unusual tropical powdery mildew (Brasiliomyces malachrae, description, comparison with other powdery mildews, parasite of cultivated and wild cottons, Gossypium barbadense, Gossypium hisutum and Gossypium puppurascens).
Hanlin, R.T. Tortolero, O. Bronx, N.Y. : The New York Botanical Garden. Mycologia. May/June 1984. v. 76 (3). p. 439-442. ill. Includes references. (NAL Call No.: 450 M99).

PROTECTION OF PLANTS

0243

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Jacobson, M. Washington, D.C. : The Office. United States patent - United States Patent Office. Oct 6, 1981. Copies of USDA patents are available for a fee from the Commissioner of Patents and Trademarks, U.S. Patents and Trademarks Office, Washington, D.C. 20231. Oct 6, 1981. (4,293,567). 3 p. Includes references. (NAL Call No.: NO CALL NO. (PAT)).

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McCarthy, J.F. Boulder, Colo. : U.S. Dept. of Commerce, NOAA, 1982. Proceedings of the Workshop on Agrichemicals and Estuarine Productivity, Duke University Marine Laboratory, Beaufort, North Carolina, September 18-19, 1980. p. 293-294. (NAL Call No.: GC97.W6 1980).

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Phoenix, Ariz. : Elliott L. Cushman. Arizona farmer rancher. Aug 1984. v. 63 (8). p. 6, 30. ill. (NAL Call No.: 6 AR44).

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Tucson, Ariz. : College of Agriculture, University of Arizona. Arizona land & people. Mar 1984. v. 35 (1). p. 18-20. (NAL Call No.: 6 P9452).

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Arthropod predators on cotton, corn, tobacco, and soybeans in South Carolina.
Roach, S.H. AR-SO. Athens, Ga., The Society. Journal - Georgia Entomological Society.Georgia Entomological Society. Apr 1980. v. 15 (2). p. 131-138. ill. 8 ref. (NAL Call No.: QL461.G4).

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Flint, H.M. Merkle, J.R.; Sledge, M. College Park, Md., Entomological Society of America. Environmental entomology. June 1981. v. 10 (3). p. 301-304. Bibliography p. 303-304. (NAL Call No.: QL461.E532).

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Smalley, D.L. Ourth, D.D. New York, Academic Press. Journal of invertebrate pathology. Sept 1979. v. 34 (2). p. 158-163. ill. 15 ref. (NAL Call No.: 421 J826).

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Behavior of adult Microplitis croceipes (Hymenoptera:Braconidae) and parasitism of Heliothis spp. (Lepidoptera:Noctuidae) host larvae in cotton.
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Beltwide boll weevil/cotton insect management programs: appendix B - economic evaluation.
United States - Dept. of Agriculture - Economic Research Service - Natural Resource Economics Division. Washington, D.C., The Service. Extract: Alternative boll weevil/cotton insect management programs were evaluated for their effects on net market benefits and for their distributive impacts on producers and consumers. The Optimum Pest Management with No Incentives and Boll Weevil Eradication (OPM-NI-BWE) program produced the highest net market benefits, as measured by the sum of producer and consumer benefits less public program costs. Consumer benefits from lower prices greatly exceeded the loss of producer incomes and public costs. The Optimum Pest Management with No Incentive (OPM-NI) program produced the highest rate of return on Federal investment. A B/C ratio of 44:1 was obtained, compared with 17:1 for OPM-NI-BWE. ERS staff report - United States Dept. of Agriculture. Economic Research Service. June 5, 1981. Available from NTIS - order no. PB82-156-209. June 5, 1981. (AGESS810518). 68 p. maps. 20 ref. (NAL Call No.: 916762(AGE)).

0322

Beltwide boll weevil/cotton insect management programs: appendix D - program definitions and public costs.
United States - Dept. of Agriculture - Economic Research Service - Natural Resource Economics Division. Washington, D.C., The Service.
Extract: Implementation plans were outlined and respective public costs were estimated for six beltwide boll weevil/cotton insect management programs in boll weevil-infested areas. Public cost is only one component of an economic evaluation of alternative programs. If fully implemented, annual public costs of the programs would be: current insect control (CIC), - .5 million; optimum pest management with incentives (OPM-I), $36 million; OPM with phased incentives (OPM-PI), $7 million; OPM with no incentives (OPM-NI) $7 million; OPM-NI with boll weevil eradication (OPM-NI-BWE), $7.5 million; and CIC-BWE, $3 million. However, estimated public and private costs would total $460 million during the 9 years to eradicate the boll weevil. Also, public costs for diapause treatments for the OPM program with phased incentives would total about $61 million during the 3 years of implementation. ERS staff report - United States Dept. of Agriculture, Economic Research Service. May 1981. Available from NTIS. May 1981. (AGESS810504). 190 p. (NAL Call No.: 916762(AGE)).

0323

Beltwide boll weevil/cotton insect management programs: appendix E - the Delphi: insecticide use and lint yields.
United States - Dept. of Agriculture - Economic Research Service - Natural Resource Economics Division. Washington, D.C., The Service. The Delphi, a method for systematic collection of information from experts, was modified to obtain biological data required for the economic analysis of boll weevil/cotton insect management programs. Cotton insect management and crop production experts provided detailed data regarding the insecticide use patterns and cotton lint yields they projected would result under each of five alternative insect management options, in 35 subregions of cotton production. These data were used to estimate average insecticide use use and cotton lint yield of six boll weevil/cotton insect management programs. Producers' average insect control costs under each program also were calculated from the information provided by the Delphi experts. ERS staff report - United States Dept. of Agriculture, Economic Research Service. May 1981. Available from NTIS. May 1981. (AGESS810507). 123 p. (NAL Call No.: 916762(AGE)).

0324

Beltwide boll weevil/cotton insect management programs: overall evaluation.
United States - Dept. of Agriculture - Economic Research Service - Natural Resource Economics Division. Washington, D.C., The Service.
Extract: Two boll weevil/cotton insect management trials, conducted during 1978-80, demonstrated the technical and operational feasibility of eradicating a boll weevil population from a geographic area or eliminating the need for boll weevil treatments during the cotton-growing season. Six cotton insect management programs were specified and evaluated for application in the boll weevil infested areas of the Cotton Belt. The Optimum Pest Management with No Incentive and Boll Weevil Eradication (OPM-NI-BWE) Program would yield substantially higher total economic and environmental benefits than the other programs. The OPM with No Incentive Program was estimated to yield the highest benefit/cost ratio in terms of public expenditures. ERS staff report - United States Dept. of Agriculture, Economic Research Service. May 15, 1981. Available from NTIS. May 15, 1981. (AGESS810721). 45 p. 16 ref. (NAL Call No.: 916762(AGE)).

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0548

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0551

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0553

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